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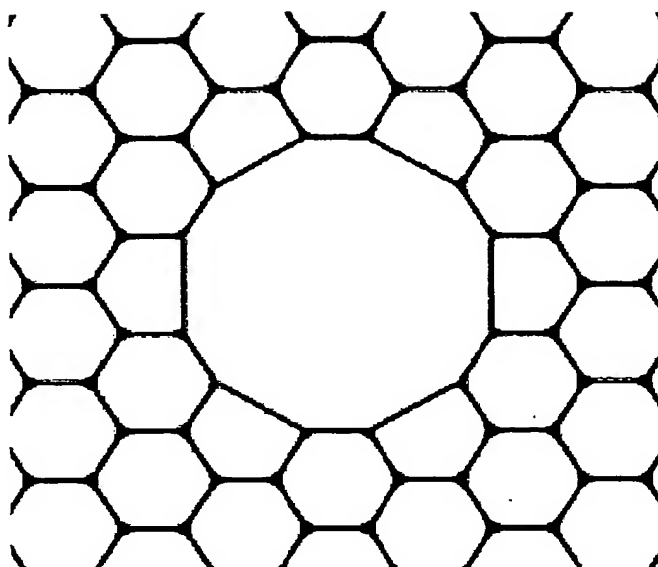


Figure 1

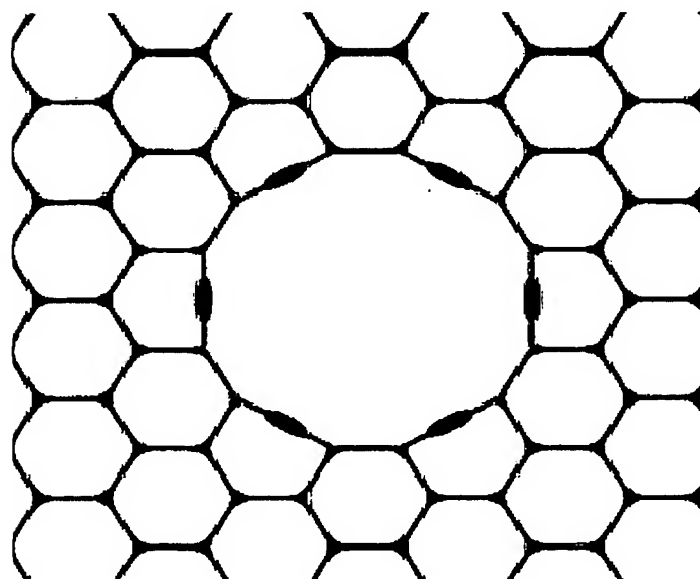
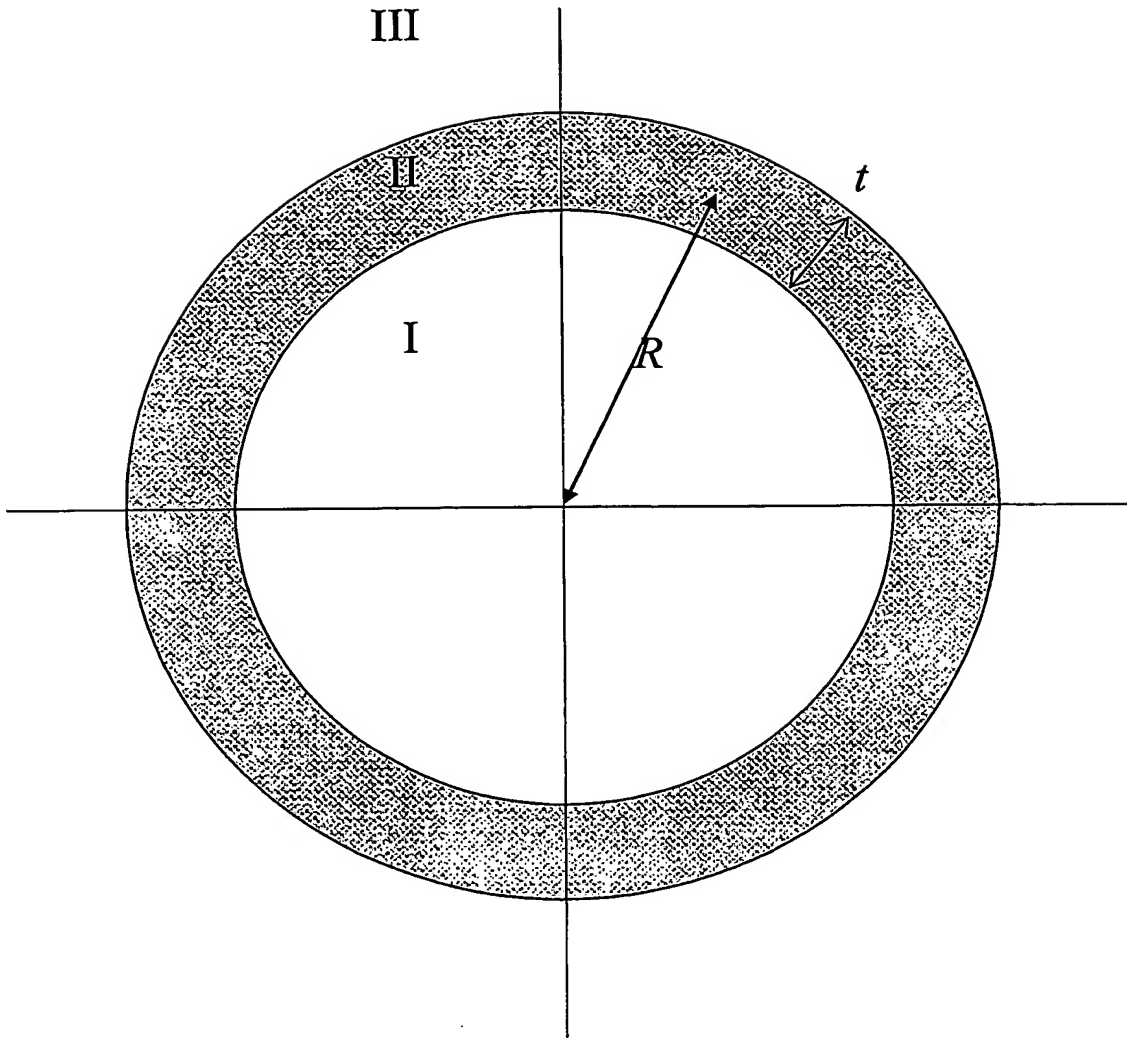


Figure 2

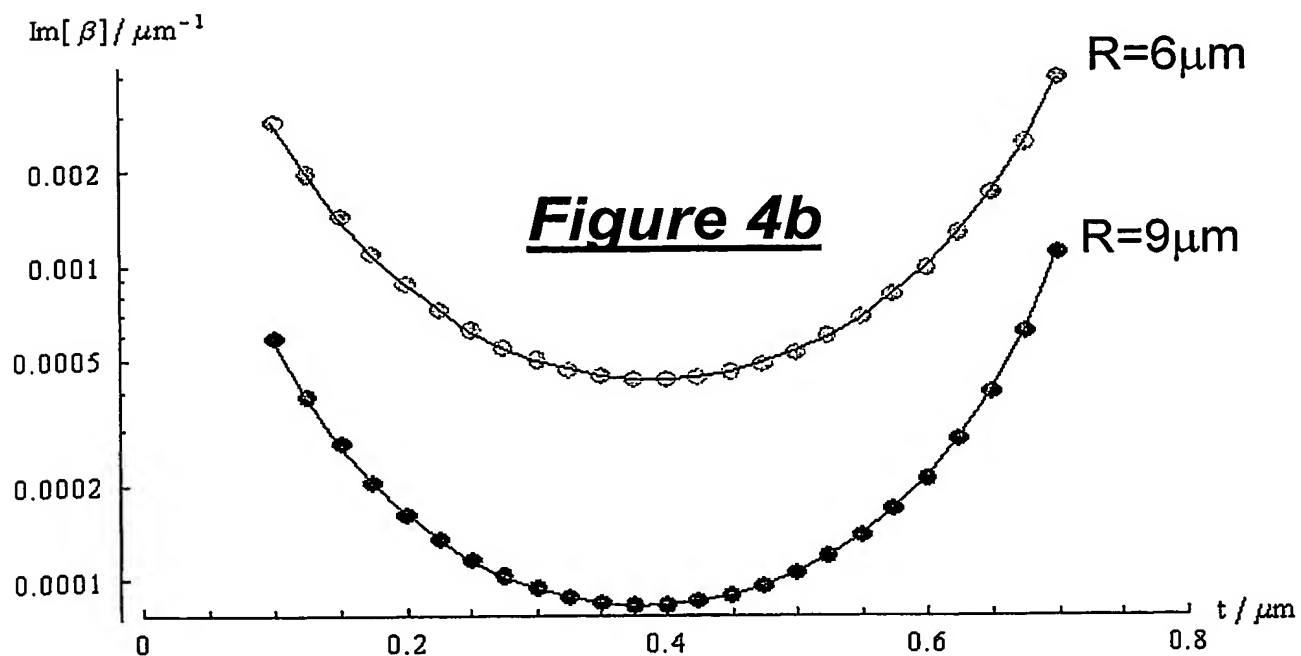
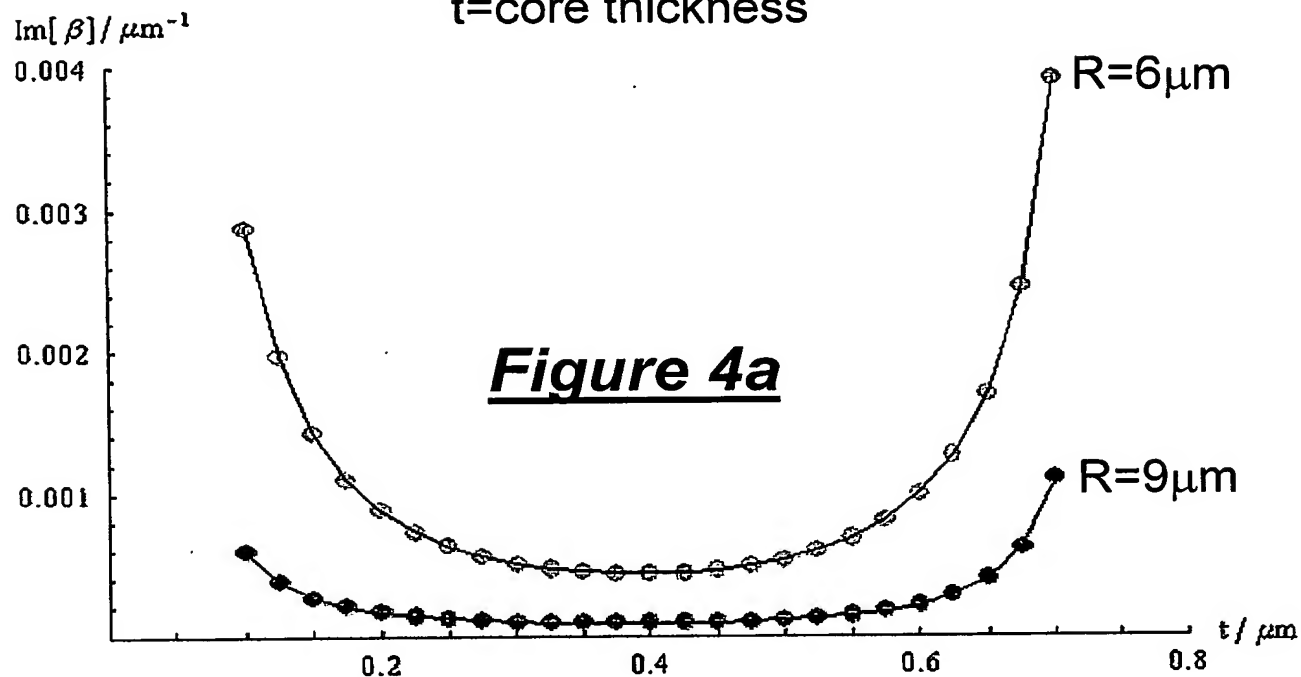
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**Figure 3**

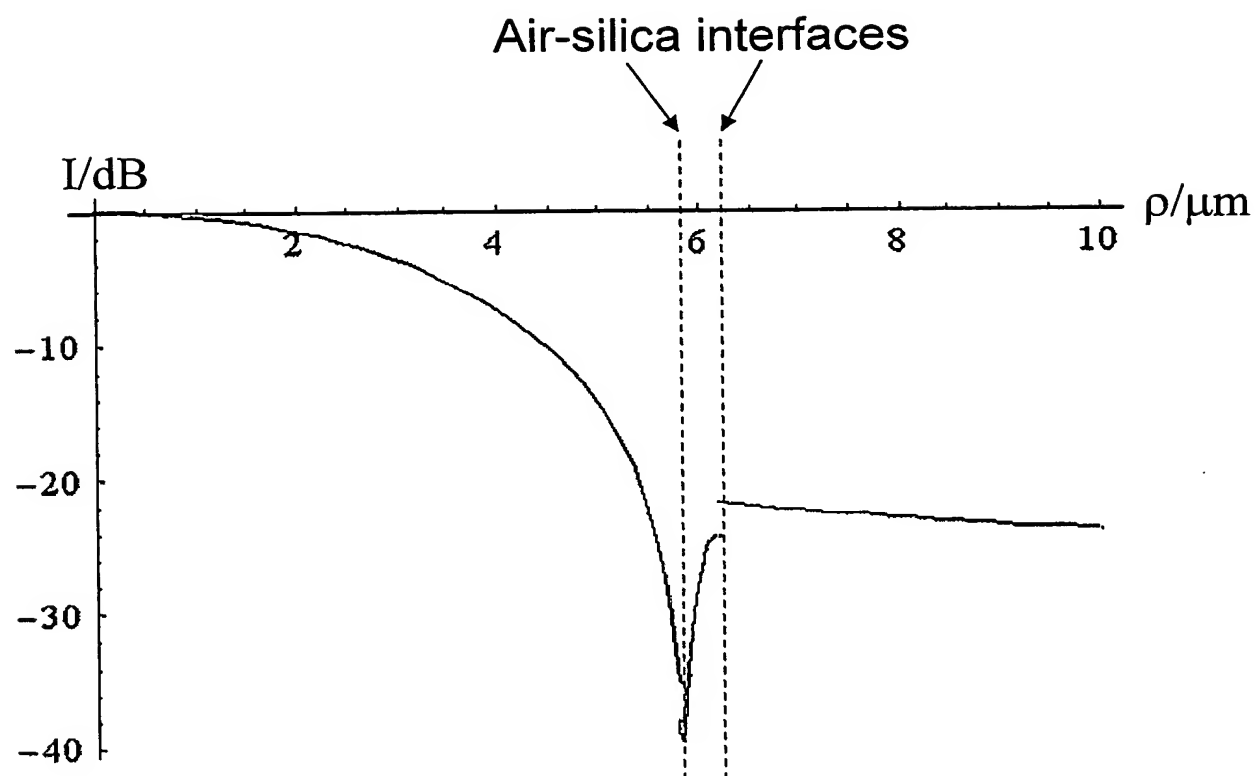
3/15 $\lambda = 1.55 \mu\text{m}$

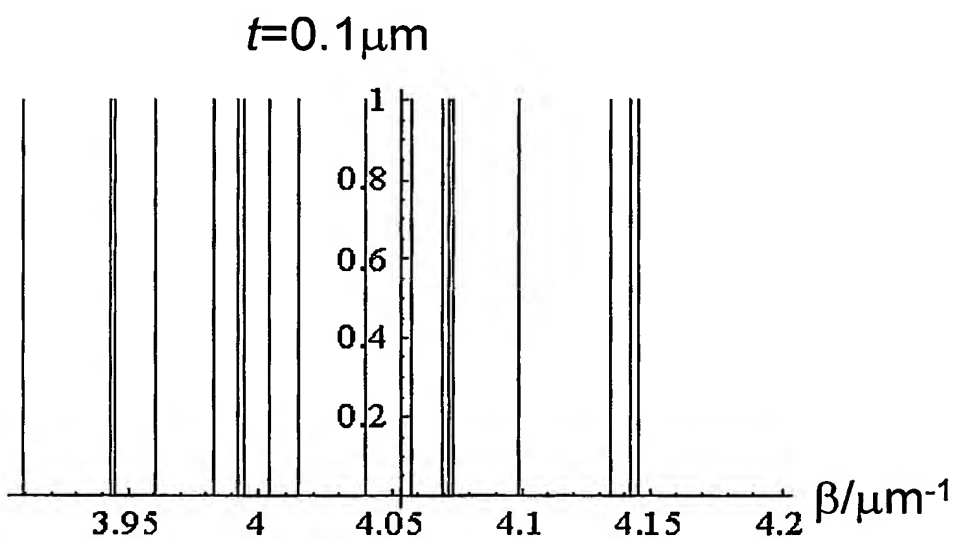
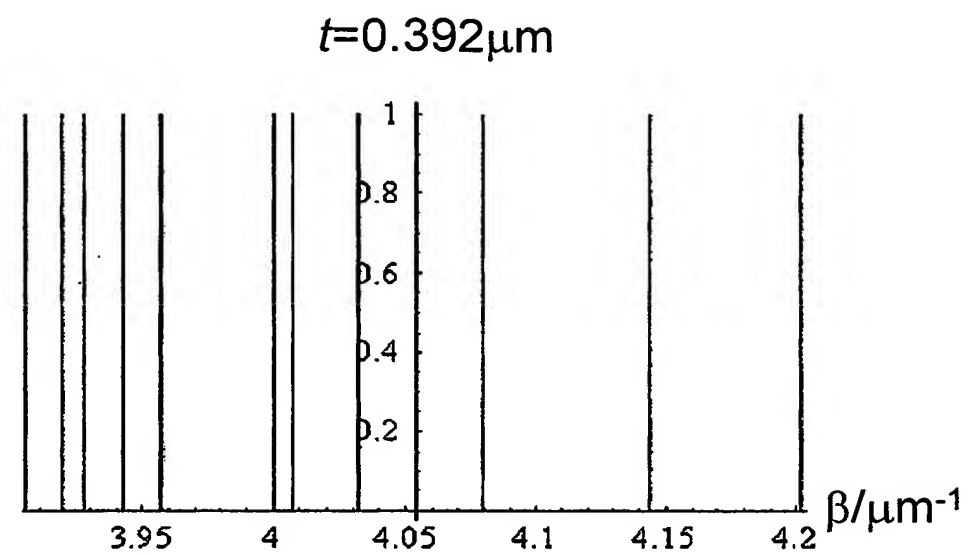
R=mean ring radius

t=core thickness

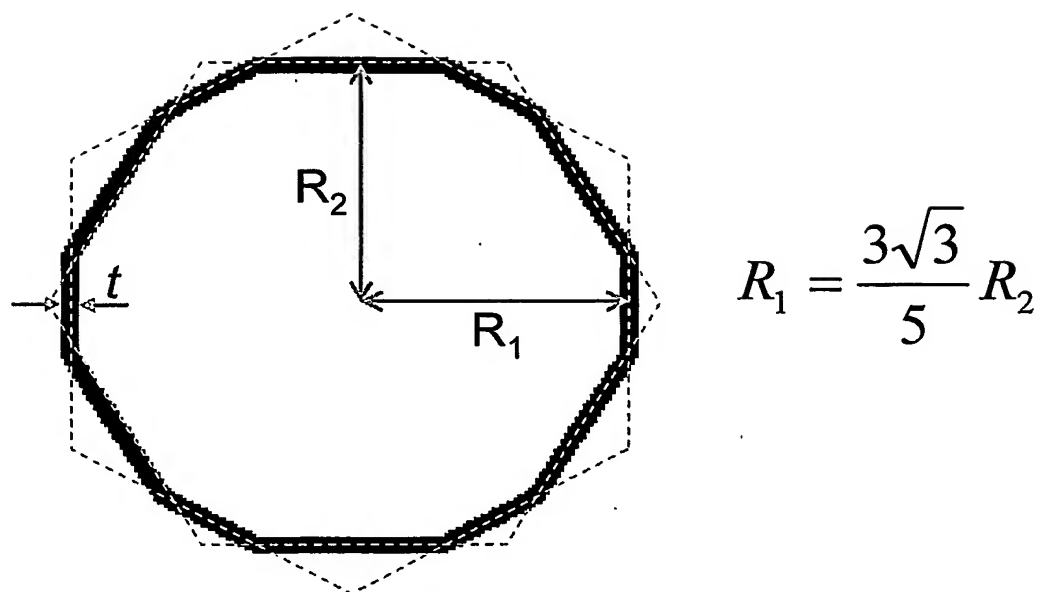


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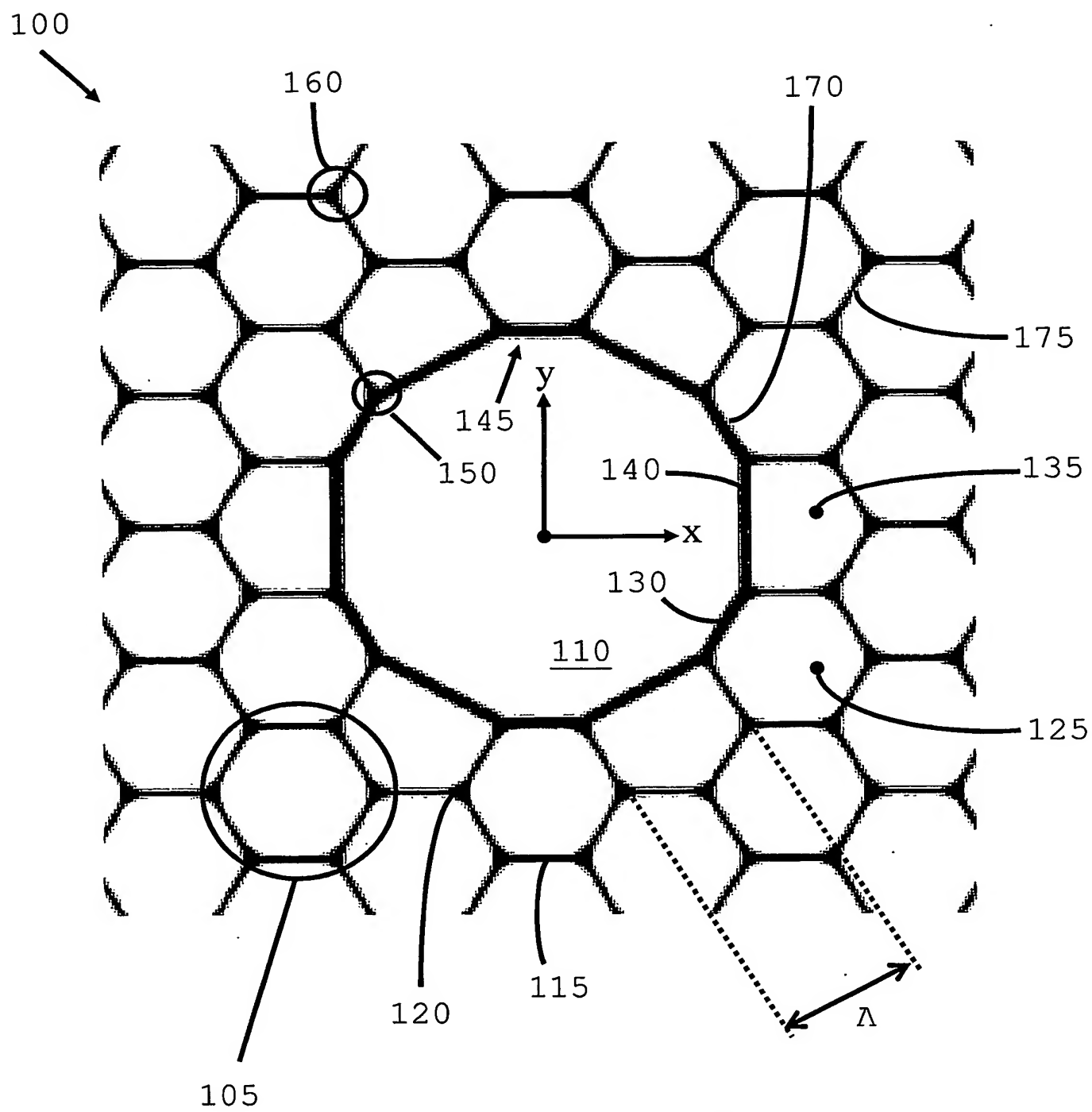
**Figure 5**

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**Figure 7**

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**Figure 8a**

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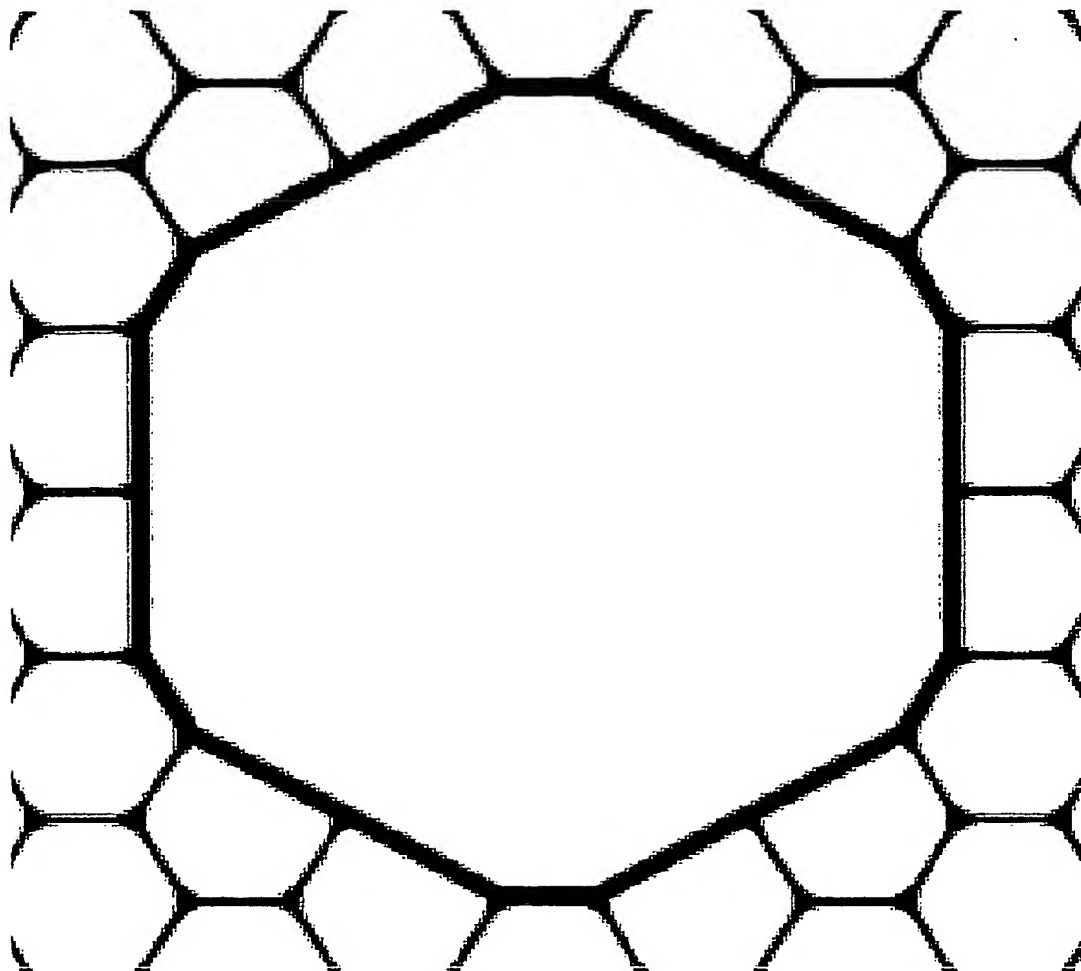
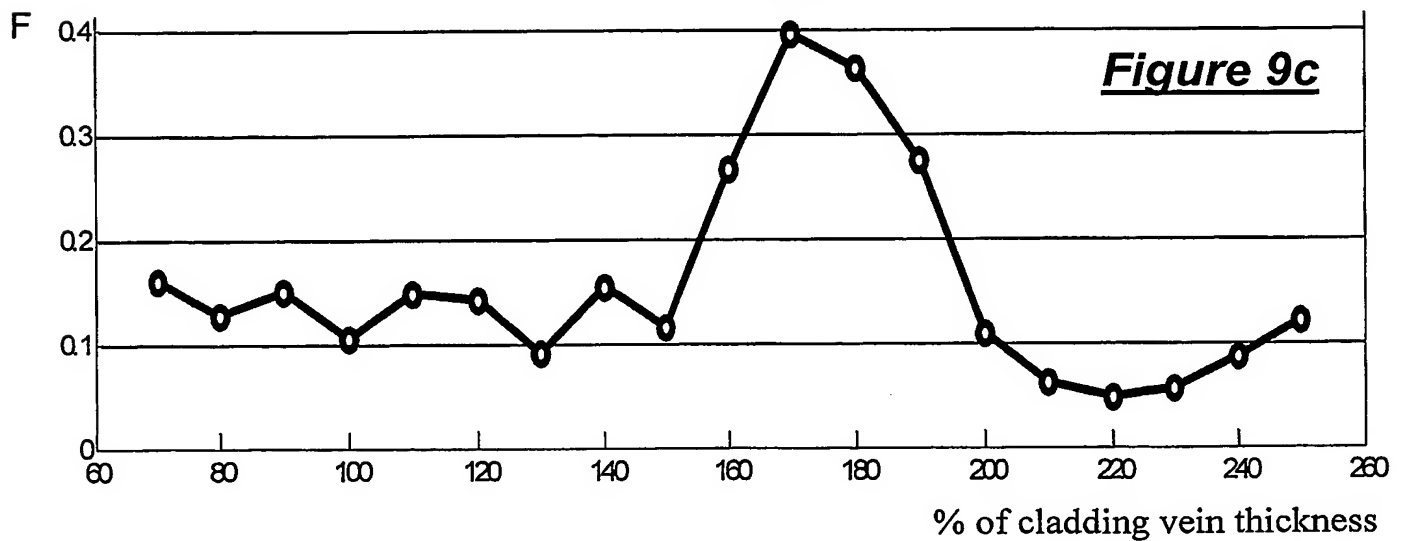
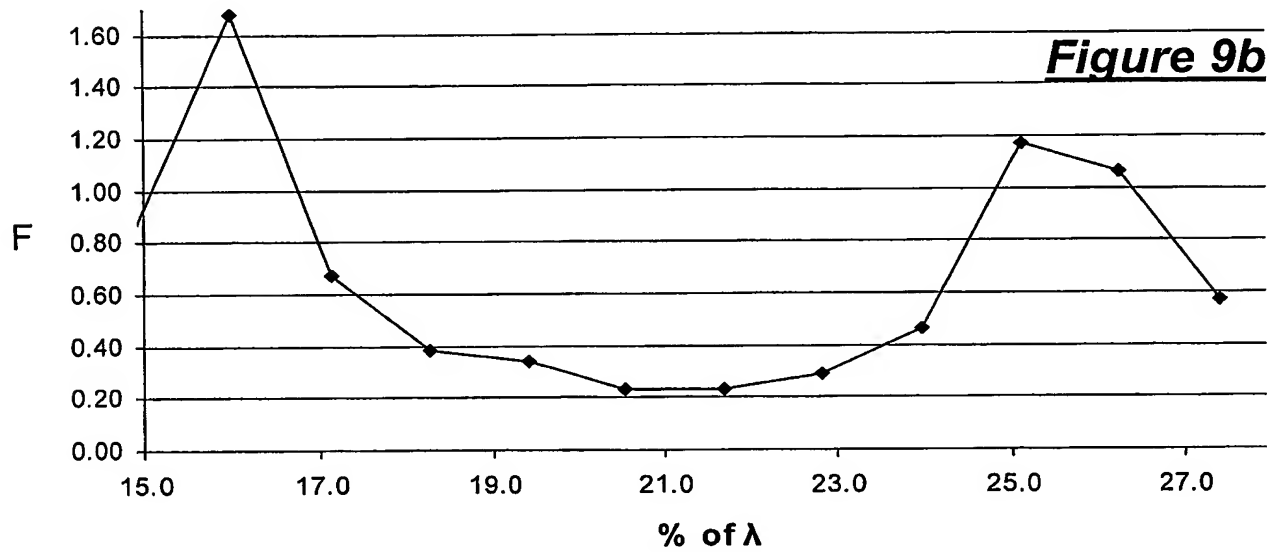
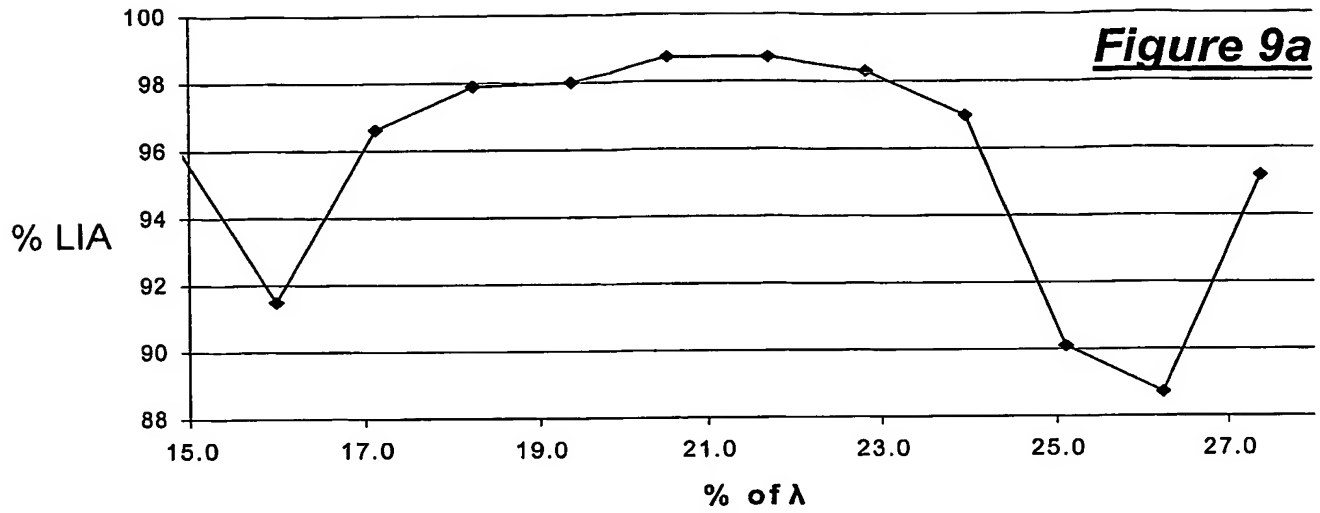
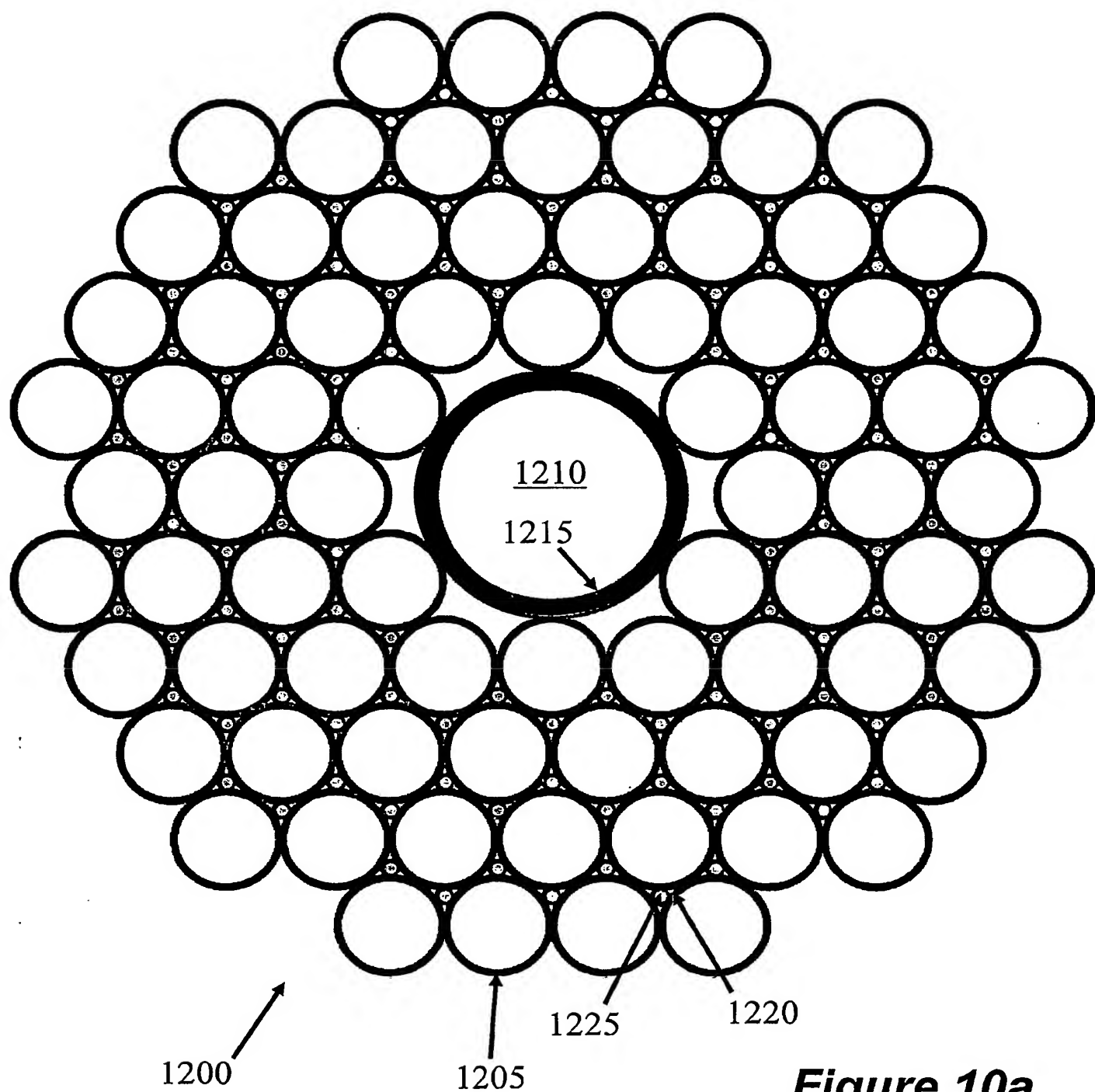


Figure 8b

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**Figure 10a**

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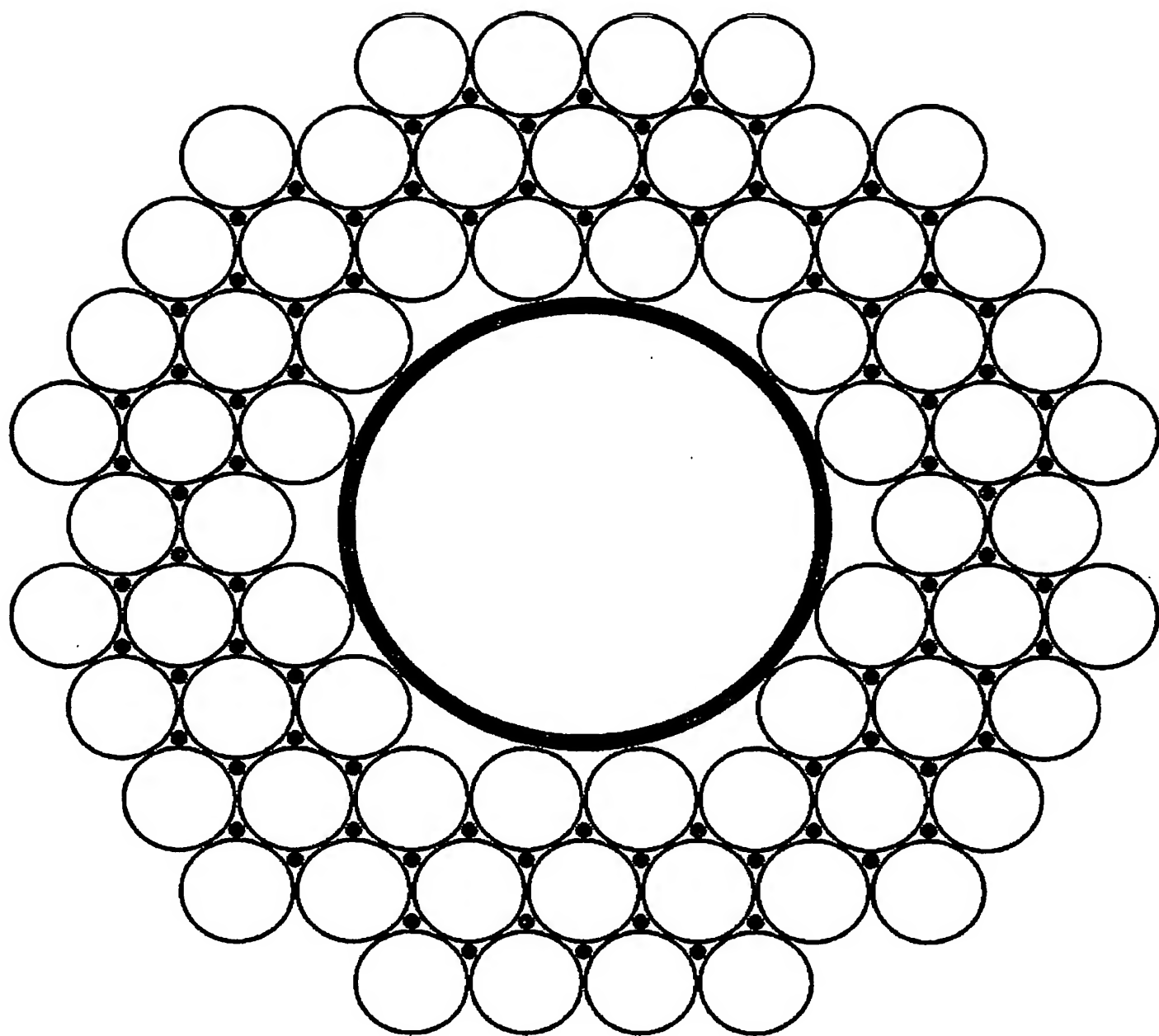


Figure 10b

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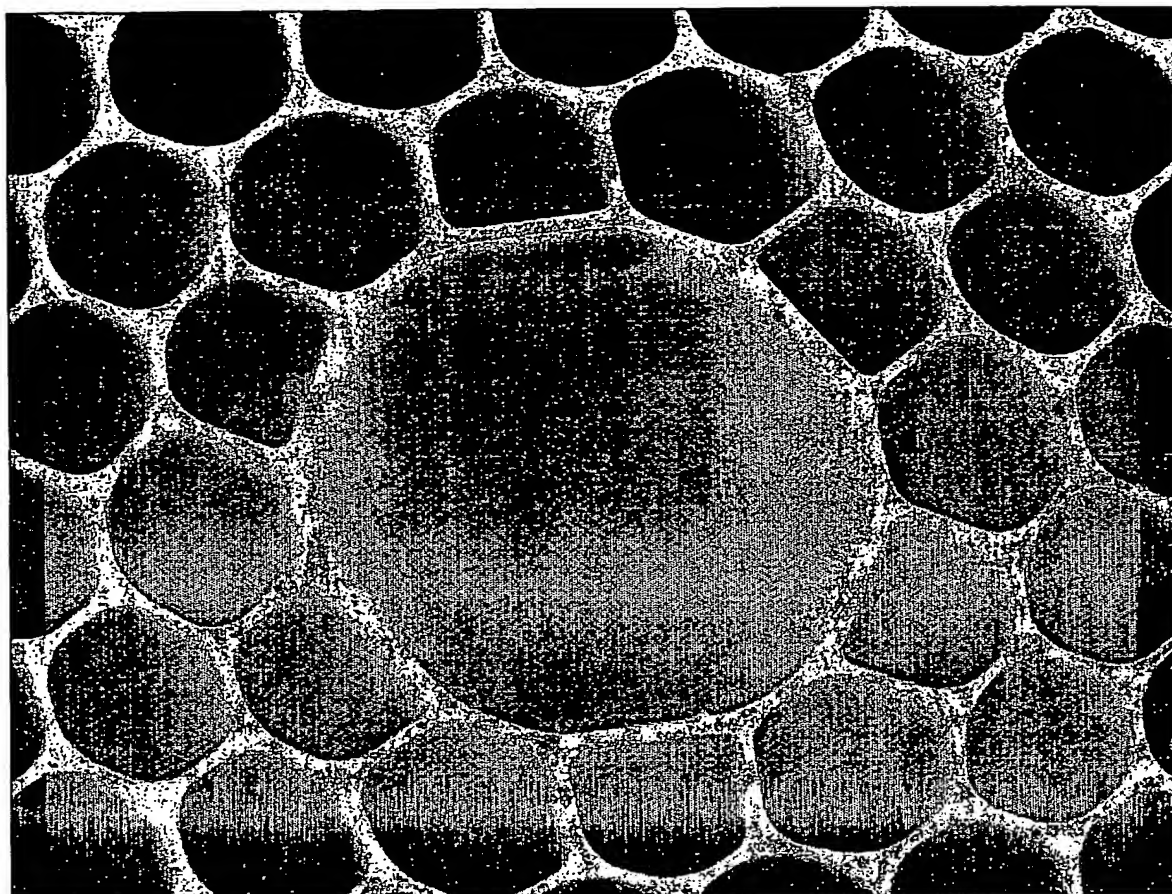


Figure 11a

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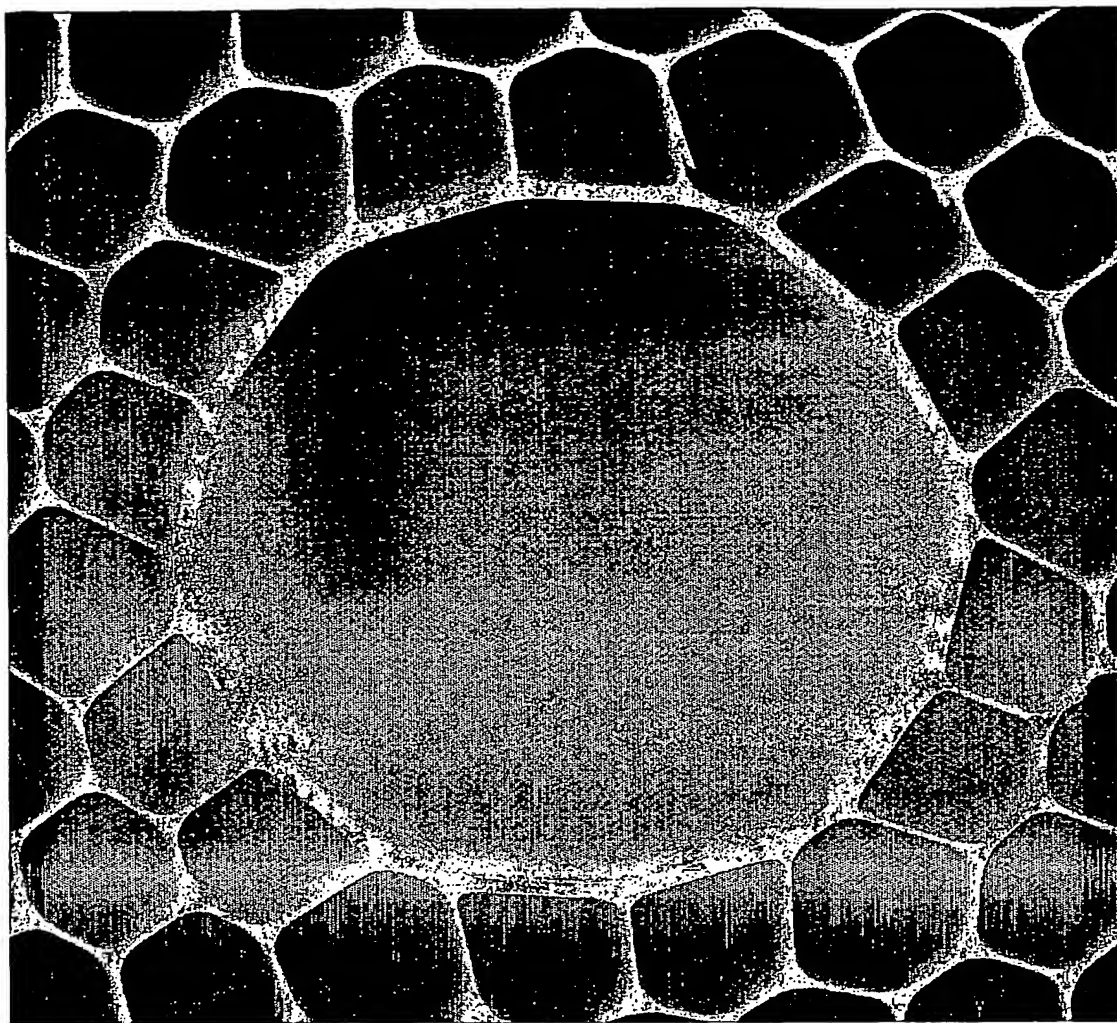
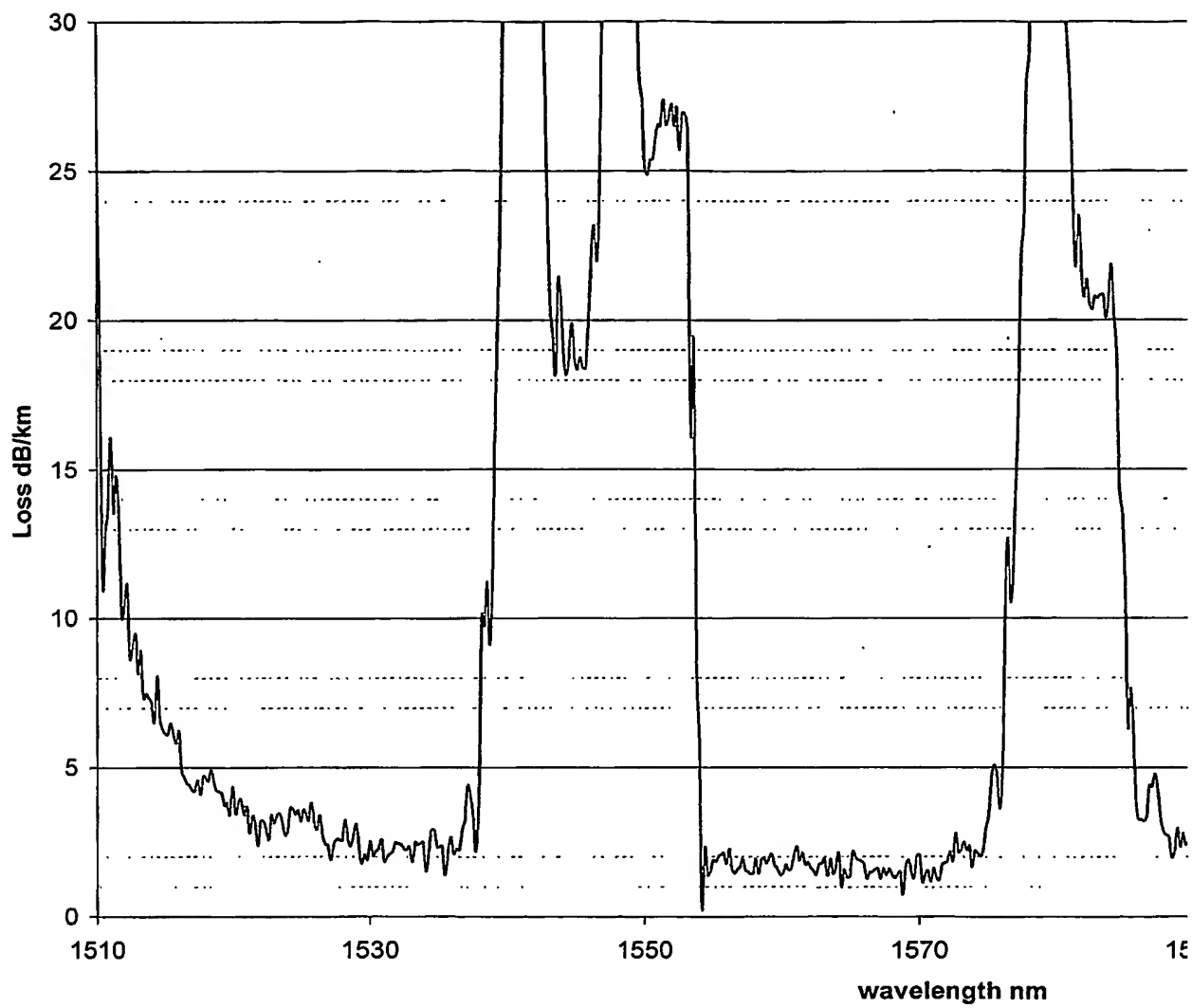


Figure 11b

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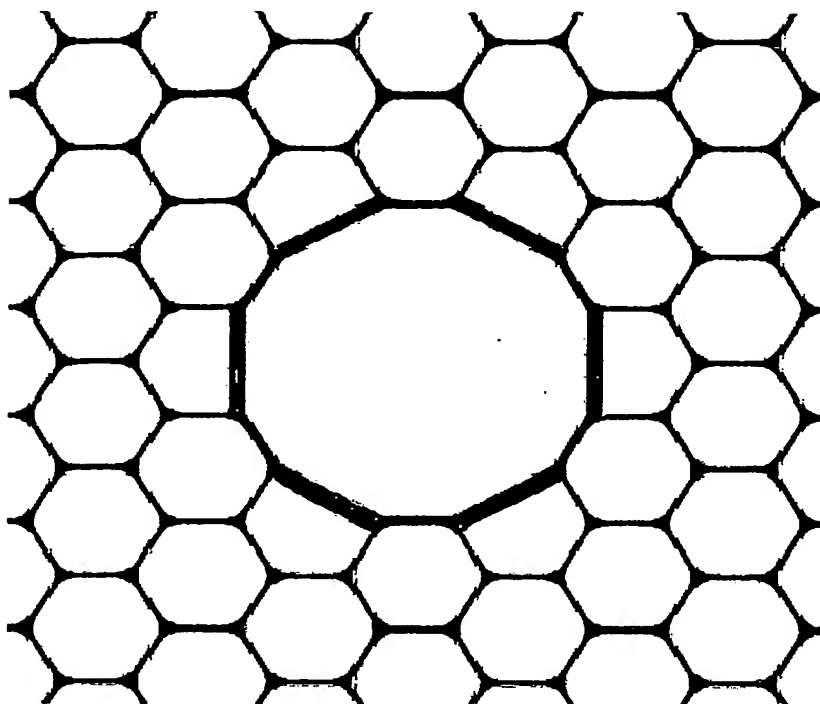


Figure 13

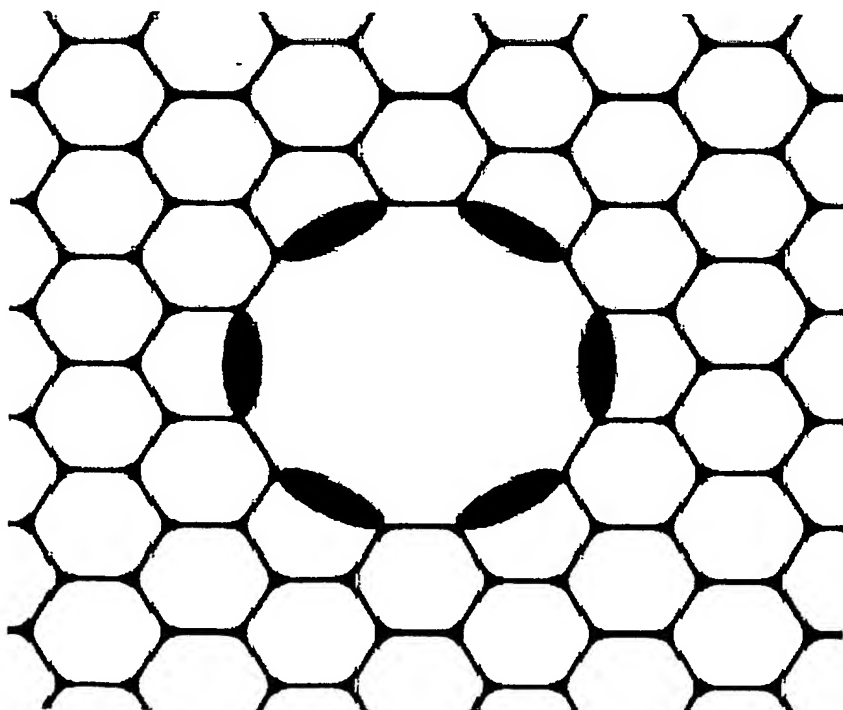


Figure 14